

Patent Claims

1. Bandage for the shoulder and upper arm area, comprising an anatomically shaped upper arm part which receives the upper arm, and an anatomically shaped forearm part which receives the forearm, the upper arm part being designed in the shape of a half shell and having a cap-like recess for receiving the shoulder joint, and the forearm part being designed in the shape of a half shell and having an enclosure for the elbow joint, and the upper arm part and the forearm part being connected to one another in an adjustable manner, and a support strap being arranged on the upper arm part and a holding strap being arranged on the forearm part.
2. Bandage according to Claim 1, characterized in that the upper arm part and the forearm part are surrounded by an encapsulating material.
3. Bandage according to Claim 1, characterized in that the edges of the upper arm part and/or forearm part are thin or conically shaped.
4. Bandage according to Claim 1, characterized in that profiled recesses can be worked into the upper arm part and exert a partial strengthening action.
5. Bandage according to Claim 1, characterized in that profiled recesses can be worked into the forearm part and exert a partial strengthening action.
6. Bandage according to Claim 1, characterized in that the forearm part has a hand guide or hand-securing means.
7. Bandage according to Claim 1, characterized in that the upper arm part is fixed ventrally to the forearm in the area of the wrist by means of a support strap which runs from the shoulder to the neck area.
8. Bandage according to Claim 1, characterized in that the support strap comprises a partial padding in the area of transition from the cervical spine to the shoulder girdle.

9. Bandage according to Claim 1, characterized in that the support strap is designed partially divided in two parts immediately after the attachment point on the shoulder cap.

5 10. Bandage according to Claim 1, characterized in that the holding strap runs from the forearm part, starting from the hand region, dorsally in the lumbar area to the distal upper arm and laterally encloses the latter from posterior to anterior.

10 11. Bandage according to Claim 1, characterized in that the straps are made of a laminated foam or a laminated nonwoven fabric.

15 12. Bandage according to Claim 1, characterized in that the straps have a high padding effect and, with loading of about 50 N, have a preferred longitudinal expansion of <35%, particularly preferably a longitudinal expansion of <10%.

20 13. Method for producing a bandage according to at least one of the preceding claims, characterized in that the upper arm part and the forearm part which are made of a starting material which contains at least a proportion of thermoplastic fibres or components, preferably to at least 10% by weight, are thermoformed to the shape of the body part on which they are to be used.

25 14. Method according to at least one of the preceding claims, characterized in that the material is a thermoformable nonwoven fabric, woven fabric, knitted fabric, foil, foam and/or a thermoformable plastic with low rigidity.

30 15. Method according to at least one of the preceding claims, the material comprises a two-layer or multi-layer laminate, of which at least one layer is thermoformable.

35 16. Method according to at least one of the preceding claims, characterized in that the material is heated to thermoformability and is then shaped using a positive mould and/or negative mould.

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17. Method according to at least one of the preceding claims, characterized in that the material is heated to its thermoformability point and is shaped between a positive mould and a negative mould.

5 18. Method according to at least one of the preceding claims, characterized in that the material is heated to its thermoformability point and formed in heated moulds.

10 19. Method according to at least one of the preceding claims, characterized in that the material has been thermoformed to individual body sizes.

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